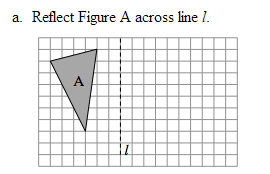
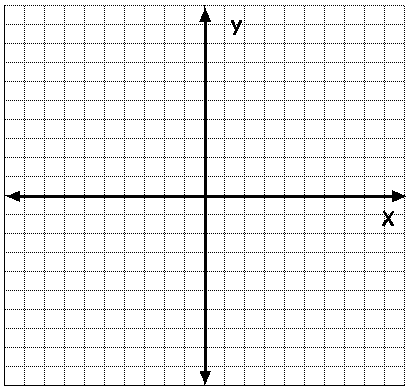
Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Geometry Midterm Exam REVIEW**

1. Describe each relationship, and then draw a picture to illustrate the relationship.

|  |  |  |
| --- | --- | --- |
| Straight Angle Pair | Vertical Angles | Corresponding Angles |
| Alternate Interior Angles | Same-Side Interior Angles | Complementary Angles |
| Similar Figures | Congruent Figures | Hypotenuse |
| Supplementary angles | Slope | Triangle Inequality |
| Parallel Lines | Area  Area Triangle = \_\_\_\_\_\_\_\_\_\_\_\_\_  Area Trapezoid =\_\_\_\_\_\_\_\_\_\_\_\_  Area Parallelogram= \_\_\_\_\_\_\_\_\_  Area Rectangle = \_\_\_\_\_\_\_\_\_\_\_\_ | Perimeter |

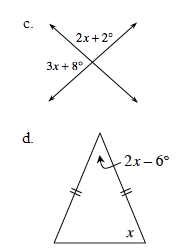
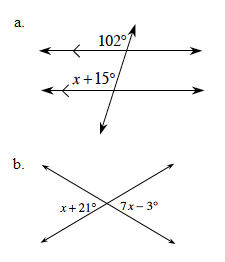
2. Solve for x.

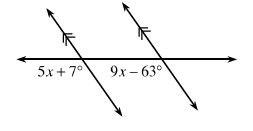
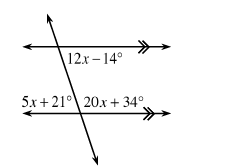
a. b.

3. Perform the transformation**** b. The point Cis rotated 90° clockwise about the origin.

What is the coordinate of C’?

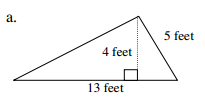
( , )

4. Identify the geometric angle relationship(s) in each diagram.  Use what you know about those relationships to write an equation and solve for x.

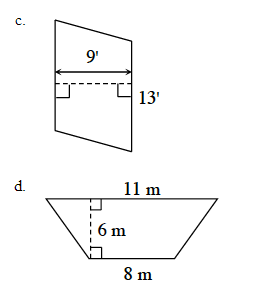
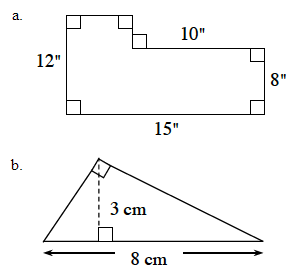
e. f. 

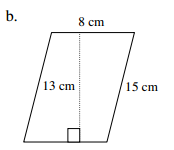
3x+17 o

20x+34o

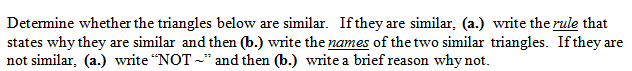
5. Find the area of each figure.

e.

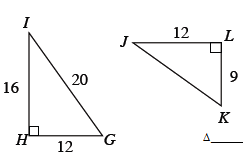
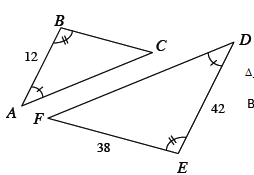


 g

f.

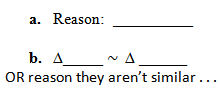


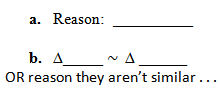
6.



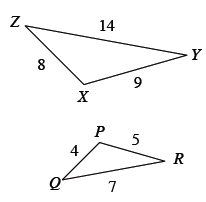
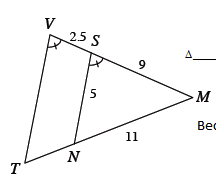
A.

B.

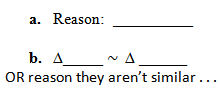


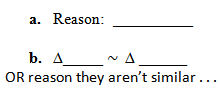


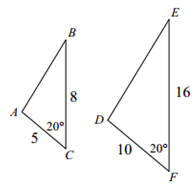
C.

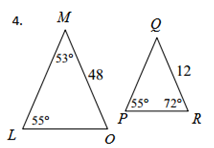


D.



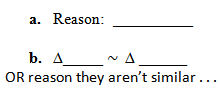
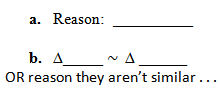


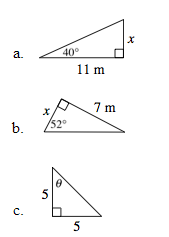


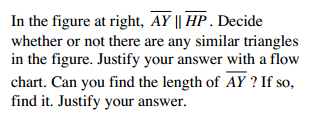


F.

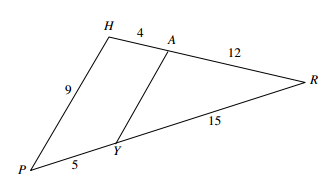
E.

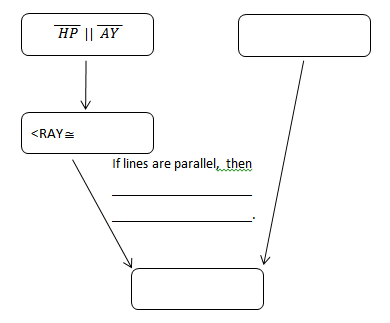


7.



8.



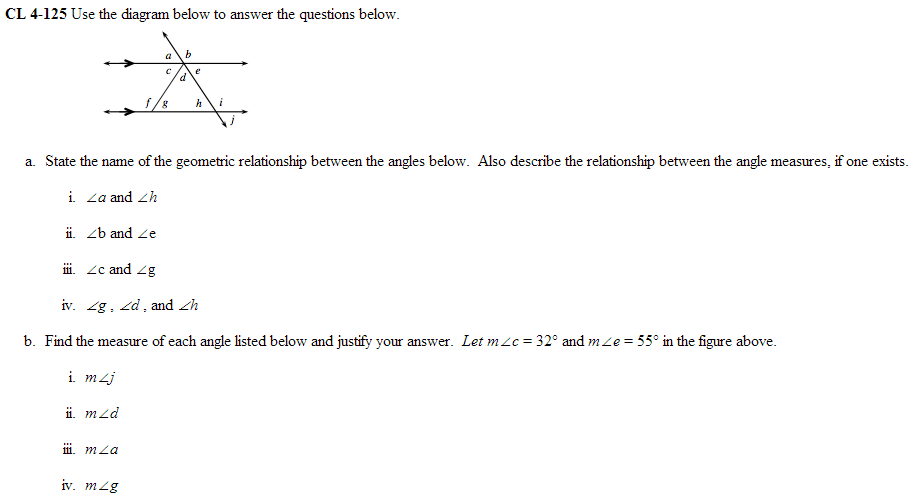
Flow chart:

9. Write the equation of the line:

a.

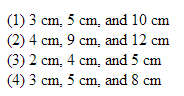
b. Parallel

10.



Determine whether the given side lengths can form a triangle. State yes or no.

11. Determine whether the given sides could form a triangle. State Yes or NO.



12. Given the rectangle at right, find the area and perimeter:



a. Area = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

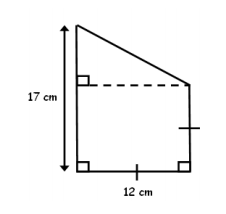


b. Perimeter = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

13. A right triangle has a hypotenuse of 11 and one leg with length 3.

a. Draw a picture:

b. Find the length of the other leg (leave solution in radical form)



14. Find the area and perimeter of the composite shape at right.

a. perimeter = \_\_\_\_\_\_\_\_\_\_\_\_

b. area = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_